

Number, percent and rate of fatal occupational injuries by selected worker characteristics, occupation and industry, 2001					
Characteristic	Fatalities		Employed ¹ (in thousands)	Fatalities per 100,000 employed ²	Relative standard error ³
	Number	Percent			
Total	5,900	100	136,252	4.3	.1
Employee status					
Wage and salary workers	4,770	81	126,298	3.8	.1
Self-employed	1,130	19	9,954	11.3	.8
Gender					
Men	5,429	92	73,087	7.4	.2
Women	471	8	63,164	0.7	.3
Age					
Under 16 years	20	0	--	--	
16 to 17 years	33	1	2,576	1.3	1.6
18 to 19 years	122	2	4,432	2.8	1.2
20 to 24 years	440	7	13,682	3.2	.7
25 to 34 years	1,140	19	30,091	3.8	.4
35 to 44 years	1,474	25	36,474	4.0	.4
45 to 54 years	1,363	23	30,627	4.5	.4
55 to 64 years	773	13	14,135	5.5	.7
65 years and over	529	9	4,175	12.7	1.3
Unspecified	6	0	--	--	
Race					
White	4,168	71	99,963	4.2	.2
Black or African American	563	10	14,815	3.8	.6
Hispanic	891	15	14,815	6.0	.6
Occupation					
Managerial and professional specialty occupations	637	11	41,894	1.5	.4
Executive, administrative, and managerial occupations	378	6	20,338	1.9	.5
Managers, marketing, advertising, and public relations	10	0	766	1.3	3.0
Managers, food serving and lodging establishments	63	1	1,463	4.3	2.1
Managers, properties and real estate	17	0	583	2.9	3.4
Management related occupations	31	1	5,139	0.6	1.1
Accountants and auditors	8	0	1,657	0.5	2.0
Professional specialty	259	4	21,556	1.2	.5
Engineers, architects, and surveyors	42	1	2,360	1.8	1.7
Engineers	36	1	2,122	1.7	1.8
Civil engineers	7	0	297	2.4	4.7
Health diagnosing occupations	12	0	1,090	1.1	2.5
Health assessment and treating occupations	25	0	3,052	0.8	1.5
Registered nurses	20	0	2,162	0.9	1.8
Teachers, post-secondary	5	0	1,003	0.5	2.6
Teachers, except post-secondary	45	1	5,473	0.8	1.1
Social, recreation, and religious workers	36	1	1,449	2.5	2.1
Social workers	16	0	782	2.0	2.9
Writers, artists, entertainers, and athletes	72	1	2,536	2.8	1.6
Athletes	27	0	114	23.7	7.7
Technical, sales, and administrative support occupations	641	11	39,044	1.6	.4
Technicians and related support occupations	154	3	4,497	3.4	1.2

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Health technologists and technicians	16	0	1,807	0.9	1.9
Engineering and related technologists, technicians	21	0	1,007	2.1	2.6
Electrical and electronic technicians	11	0	475	2.3	3.8
Technicians, except health, engineering and science	111	2	1,384	8.0	2.2
Airplane pilots and navigators	87	1	136	64.0	7.0
Sales occupations	388	7	16,044	2.4	.6
Supervisors and proprietors, sales occupations	191	3	4,836	3.9	1.2
Sales representatives, finance and business services	23	0	2,891	0.8	1.5
Sales representatives, commodities except retail	25	0	1,511	1.7	2.1
Sales workers, retail and personal services	148	3	6,711	2.2	1.0
Sales counter clerks	16	0	194	8.2	5.9
Cashiers	55	1	2,974	1.8	1.5
News vendors	19	0	89	21.3	8.7
Administrative support occupations, including clerical	99	2	18,503	0.5	.6
Mail and message distributing occupations	25	0	936	2.7	2.7
Mail carriers, postal service	9	0	344	2.6	4.4
Messengers	11	0	157	7.0	6.5
Material recording, scheduling, and distributing clerks	18	0	2,012	0.9	1.8
Miscellaneous administrative support occupations	14	0	3,970	0.4	1.3
Service occupations	511	9	18,359	2.8	.6
Protective service occupations	287	5	2,478	11.6	1.6
Fire fighting, prevention jobs, including supervisors	50	1	303	16.5	4.7
Police and detectives, including supervisors	159	3	1,177	13.5	2.4
Guards, including supervisors	78	1	998	7.8	2.6
Service occupations, except protective and household	214	4	15,166	1.4	.6
Food preparation and service occupations	56	1	6,246	0.9	1.0
Bartenders	12	0	342	3.5	4.4
Waiters and waitresses	10	0	1,347	0.7	2.2
Cooks	13	0	2,073	0.6	1.8
Health service occupations	21	0	2,680	0.8	1.6
Cleaning and building service occupations, except household	78	1	3,114	2.5	1.5
Janitors and cleaners	68	1	2,166	3.1	1.7
Personal service occupations	59	1	3,126	1.9	1.5
Farming, forestry, and fishing occupations	805	14	3,245	24.6	1.4
Farm occupations--comprises the 4 jobs below with asterisks.	499	8	1,725	27.9	2.0
Farm operators and managers	321	5	1,108	28.9	2.5
Farmers, except horticultural *	305	5	844	36.0	2.8
Managers, farms, except horticultural *	11	0	171	6.4	6.3
Other agricultural and related occupations	327	6	2,004	16.0	1.8
Farm occupations, except managerial	185	3	734	24.3	3.0
Supervisors, farm workers *	13	0	39	33.3	13.1
Farm workers *	170	3	671	24.3	3.2
Related agricultural occupations	142	2	1,269	11.2	2.3
Supervisors, related agricultural occupations	12	0	179	6.7	6.1
Groundskeepers and gardeners, except farm	120	2	876	13.7	2.8
Forestry and logging occupations	95	2	90	105.6	8.6
Timber cutters	92	2	72	127.8	9.6
Supervisors, forestry and logging workers	10	0	17	58.8	19.9
Timber cutting and logging occupations	82	1	55	149.1	11.0
Fishers, hunters, and trappers	62	1	42	147.6	12.6
Fishers, including vessel captains and officers	62	1	41	151.2	12.8
Precision production, craft, and repair occupations	1,140	19	14,833	7.7	.6
Mechanics and repairers	287	5	4,807	6.0	1.2
Supervisors, mechanics and repairers	15	0	261	5.7	5.1

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Mechanics and repairers, except supervisors	272	5	4,547	6.0	1.2
Vehicle and mobile equipment mechanics and repairers	118	2	1,795	6.6	1.9
Automobile mechanics	36	1	817	4.4	2.9
Bus, truck, and stationary engine mechanics	27	0	344	7.8	4.4
Automobile body and related repairers	10	0	220	4.5	5.5
Heavy equipment mechanics	34	1	158	21.5	6.5
Industrial machinery repairers	31	1	448	6.9	3.9
Electrical and electronic equipment repairers	32	1	984	3.3	2.6
Electronic repairers, communications, industrial equipment	13	0	202	6.4	5.8
Heating, air conditioning, and refrigeration mechanics	18	0	326	5.5	4.5
Miscellaneous mechanics and repairers	68	1	975	7.0	2.6
Construction trades	666	11	6,253	10.6	1.0
Supervisors, construction occupations	99	2	986	10.0	2.6
Construction trades, except supervisors	567	10	5,266	10.7	1.1
Brickmasons and stonemasons	15	0	235	6.4	5.3
Carpenters	112	2	1,486	7.5	2.1
Electricians	109	2	874	12.5	2.8
Electrical power installers and repairers	36	1	138	26.1	7.0
Painters, construction and maintenance	42	1	636	6.6	3.2
Plumbers, pipefitters and steamfitters	45	1	569	7.9	3.4
Roofers	78	1	212	36.3	5.6
Structural metal workers	45	1	78	57.7	9.3
Extractive occupations	97	2	132	73.5	7.1
Mining machine operators	34	1	31	109.7	14.7
Precision production occupations	90	2	3,641	2.5	1.3
Operators, fabricators, and laborers	2,043	35	17,698	11.5	.6
Machine operators, assemblers, and inspectors	208	4	6,734	3.1	1.0
Machine operators and tenders, except precision	111	2	4,198	2.6	1.3
Metal working, plastic working machine operators	8	0	313	2.6	4.6
Machine operators, assorted materials	83	1	2,515	3.3	1.6
Fabricators, assemblers, and hand working occupations	86	1	1,833	4.7	1.9
Welders and cutters	69	1	529	13.0	3.6
Assemblers	16	0	1,135	1.4	2.4
Production inspectors, testers, samplers, and weighers	11	0	704	1.6	3.1
Transportation and material moving occupations	1,185	20	5,638	21.0	1.1
Motor vehicle operators	966	16	4,356	22.2	1.2
Truck drivers	799	14	3,156	25.3	1.4
Drivers-sales workers	55	1	166	33.1	6.4
Bus drivers	27	0	571	4.7	3.4
Taxicab drivers and chauffeurs	62	1	305	20.3	4.7
Transportation occupations, except motor vehicles	36	1	171	21.1	6.3
Rail transportation occupations	13	0	112	11.6	7.7
Railroad brake, signal, and switch operators	5	0	7	71.4	30.9
Water transportation occupations	23	0	59	39.0	10.7
Ship captains and mates, except fishing boats	9	0	34	26.5	14.0
Sailors and deckhands	13	0	20	65.0	18.3
Material moving equipment operators	183	3	1,111	16.5	2.4
Operating engineers	51	1	245	20.8	5.2
Crane and tower operators	14	0	68	20.6	9.9
Excavating and loading machine operators	22	0	94	23.4	8.4
Grader, dozer, and scraper operators	14	0	60	23.3	10.6
Industrial truck and tractor equipment operators	47	1	542	8.7	3.5
Handlers, equipment cleaners, helpers, and laborers	650	11	5,326	12.1	1.1
Helpers, construction and extractive occupations	13	0	116	11.2	7.6

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Construction laborers	349	6	1,024	33.5	2.6
Freight, stock, and material handlers	79	1	2,003	3.9	1.8
Garbage collectors	31	1	56	55.4	10.9
Stock handlers and baggers	10	0	1,127	0.9	2.4
Garage and service station related occupations	20	0	173	11.6	6.2
Vehicle washers and equipment cleaners	10	0	309	3.2	4.7
Laborers, except construction	167	3	1,252	13.2	2.3
Military	110	2	1,179	9.3	2.4
Industry					
Private industry	5,270	89	115,934	4.5	.2
Agriculture, forestry, and fishing	740	13	3,208	22.8	1.4
Agricultural production, crops	301	5	888	33.3	2.7
Agricultural production, livestock	128	2	966	13.0	2.6
Agricultural services	191	3	1,277	15.0	2.3
Landscape and horticultural services	133	2	878	15.1	2.8
Fishing, hunting, and trapping	61	1	44	138.6	12.3
Mining	170	3	566	30.0	3.4
Metal mining	13	0	37	35.1	13.5
Coal mining	42	1	88	47.7	8.7
Oil and gas extraction	98	2	353	27.8	4.4
Construction	1,225	21	9,125	13.3	.8
Manufacturing	599	10	18,897	3.2	.6
Food and kindred products	57	1	1,632	3.5	2.0
Meat products	17	0	458	3.7	3.8
Grain mill products	7	0	160	4.4	6.5
Lumber and wood products	151	3	691	21.9	3.1
Logging	103	2	102	101.0	8.1
Sawmills and planing mills	20	0	375	5.3	4.2
Paper and allied products	12	0	586	2.0	3.4
Printing and publishing	32	1	1,747	1.8	2.0
Newspapers	17	0	477	3.6	3.7
Chemicals and allied products	43	1	1,236	3.5	2.3
Rubber and miscellaneous plastics products	20	0	787	2.5	2.9
Stone, clay, and glass products	52	1	538	9.5	3.5
Concrete, gypsum, and plaster products	42	1	204	20.6	5.7
Primary metal industries	35	1	742	4.7	3.0
Blast furnace and basic steel products	14	0	328	4.3	4.5
Fabricated metal products	51	1	1,274	4.0	2.3
Fabricated structural metal products	27	0	578	4.7	3.4
Industrial machinery and equipment	38	1	2,303	1.7	1.7
Construction and related machinery	8	0	218	3.7	5.5
Transportation equipment	33	1	2,133	1.5	1.8
Motor vehicles and equipment	18	0	1,207	1.5	2.3
Transportation and public utilities	911	15	8,131	11.2	.9
Railroad transportation	18	0	247	7.3	5.2
Local and interurban passenger transit	80	1	622	12.9	3.3
Taxicabs	46	1	131	35.1	7.2
Trucking and warehousing	533	9	2,691	19.8	1.6
Trucking service	502	9	2,498	20.1	1.6
Public warehousing and storage	16	0	193	8.3	5.9
Water transportation	42	1	194	21.6	5.9
Transportation by air	85	1	884	9.6	2.7

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Total	5,900	100	136,252	4.3	.1
Transportation services	25	0	428	5.8	4.0
Communications	33	1	2,074	1.6	1.8
Telephone communications	16	0	1,588	1.0	2.0
Wholesale trade	220	4	5,086	4.3	1.1
Wholesale trade, durable goods	124	2	2,761	4.5	1.5
Motor vehicles, parts, and supplies	20	0	262	7.6	5.1
Lumber and construction materials	16	0	203	7.9	5.7
Machinery, equipment, and supplies	26	0	616	4.2	3.3
Wholesale trade, nondurable goods	96	2	2,325	4.1	1.7
Groceries and related products	31	1	926	3.3	2.7
Farm-product raw materials	17	0	93	18.3	8.5
Petroleum and petroleum products	5	0	132	3.8	7.1
Retail trade	537	9	22,478	2.4	.5
Lumber and other building materials	16	0	691	2.3	3.1
Grocery stores	111	2	2,862	3.9	1.5
Gasoline service stations	24	0	372	6.5	4.2
Furniture and homefurnishings stores	22	0	654	3.4	3.2
Eating and drinking places	147	2	6,870	2.1	1.0
Liquor stores	16	0	131	12.2	7.2
Finance, insurance, and real estate	86	1	8,616	1.0	.9
Depository institutions	15	0	2,141	0.7	1.8
Insurance carriers	5	0	2,366	0.2	1.7
Real estate	46	1	2,243	2.1	1.7
Services	767	13	39,904	1.9	.4
Hotels and other lodging places	36	1	1,553	2.3	2.1
Hotels and motels	33	1	1,440	2.3	2.1
Business services	191	3	9,698	2.0	.8
Advertising	5	0	296	1.4	4.8
Services to buildings	27	0	939	2.9	2.7
Personnel supply services	33	1	1,015	3.3	2.6
Government	630	11	20,318	3.1	.5
Federal	161	3	4,436	3.6	1.2
State	112	2	5,678	2.0	1.1
Local	332	6	10,205	3.3	.8
<p>¹ The employment figures, except for military, are annual average estimates of employed civilians, 16 years of age and older, from the Current Population Survey (CPS), 2001. The resident military figure, obtained from the Department of Defense, was added to the CPS employment total.</p>					
<p>² The rate represents the number of fatal occupational injuries per 100,000 employed workers and was calculated as follows: $(N/W) \times 100,000$, where N = the number of fatal work injuries, and W = the number of employed workers. There were 20 fatally injured workers under the age of 16 years that were not included in the rate calculations to maintain consistency with the CPS employment.</p>					
<p>³ The relative standard errors of the CPS employment estimates can be used to approximate confidence ranges for the fatality rates. For example, a confidence range for the roofers rate can be approximated as follows: $36.3 \times .056 \times 1.6 = 3.3$, where 36.3 = the rate, .056 = the relative standard error (5.6 percent), and 1.6 = the factor for a 90 percent confidence level. The confidence range for this rate is 33.0 to 39.6 (36.3 plus or minus 3.3).</p>					
<p>NOTE: Totals exclude fatalities resulting from the September 11 terrorist attacks. Selected rate categories had 5 or more work injury fatalities in 2001. Dashes indicate data not available or less than .5 percent. Totals for major categories may include subcategories not shown separately. Figures may not add to totals because of rounding.</p>					
<p>SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with State, New York City, District of Columbia, and Federal agencies. Census of Fatal Occupational Injuries, 2001</p>					